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BOARD OF ACTUARIES OF THE CIVIL SERVICE RETIREMENT SYSTEM FIFTY-THIRD AND FIFTY-FOURTH ANXUAL

REPORTS

1978

COMMUNICATION

FROM

THE CHAIRMAN OF THE UNITED STATES CIVIL SERVICE COMMISSION

TRANSMITTING

THE FIFTY-THIRD AND FIFTY-FOURTH ANNUAL REPORTS OF THE BOARD OF ACTUARIES OF THE CIVIL SERVICE RETIREMENT SYSTEM, PURSUANT TO 5 U.S.C. 8347(f)

(Referred to the House Committee on Post Office and Civil Service)



SEPTEMBER 20, 1976

Printed for the use of the Committee on Post Office and Civil Service

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(II)

LETTER OF TRANSMITTAL

U.S. CIVIL SERVICE COMMISSION, Washington, D.C.

Hon. Carl Albert, Speaker of the House of Representatives, Washington, D.C.

DEAR MR. SPEAKER: The Commission is pleased to send you herewith the 53rd and 54th Annual Reports of the Board of Actuaries of the Civil Service Retirement System. These reports, showing the status of the retirement system on June 30, 1973 and June 30, 1974 respectively are submitted in pursuance of section 8347(f) of Title 5, United States Code.

The report has also been sent to the President of the Senate.

Sincerely yours,

ROBERT E. HAMPTON, Chairman.

(III)

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BOARD OF ACTUARIES, CIVIL SERVICE RETIREMENT SYSTEM, June 11, 1976.

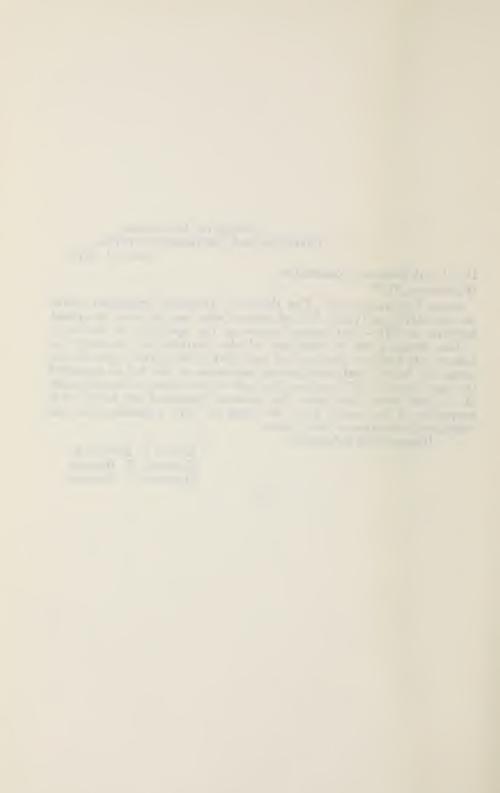
U.S. CIVIL SERVICE COMMISSION. Washington, D.C.

DEAR COMMISSIONERS: The Board of Actuaries appointed under section 8347(f) of Title 5, United States Code, has the honor to submit herewith its fifty-third annual report on the operation of the fund.

The report gives a statement of the contribution necessary to finance the fund on the method provided under Public Law 91–93, under the benefit and contribution provisions of the Act as amended through June 30, 1973, and on the basis of the estimated membership of the fund as of that date. The amounts indicated are based on a projection of the results from the June 30, 1972 valuation, the last completed valuation of the System.

Respectfully submitted,

EDWIN F. BOYNTON. RUSSELL R. REAGH. Douglas C. Borton.



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FIFTY-THIRD ANNUAL REPORT OF THE BOARD OF ACTUARIES OF THE CIVIL SERVICE RETIREMENT SYSTEM PREPARED AS OF JUNE 30, 1973

INTRODUCTION

The Civil Service Retirement System was established in 1920 to furnish pension benefits to officers and employees retiring from employment with the United States Government. The current system provides survivor and disability benefits as well as retirement benefits, after various age and service combinations are met. Title 5, United States Code, makes provision for a Board of Actuaries of the Civil Service Retirement System and in section 8347(f) defines the chief duties of the Board, as follows:

known as the Board of Actuaries of the Civil Service Retirement System. The Commission shall fix the pay of the members of the Board, except members otherwise in the employ of the United States. The Board shall report annually on the actuarial status of the System and furnish its advice and opinion on matters referred to it by the Commission. The Board may recommend to the Commission and to Congress such changes as in the Board's judgment are necessary to protect the public interest and maintain the System on a sound financial basis. The Commission shall keep, or cause to be kept, such records as it considers necessary for making periodic actuarial valuations of the System. The Board shall make actuarial valuations every 5 years, or oftener if considered necessary by the Commission.

This report, which has been prepared as of June 30, 1973, is the fifty-third annual report of the Board of Actuaries, but does not include an actuarial valuation of the System. The last complete actuarial valuation of the System was carried out as of June 30, 1972 and the results were presented in the fifty-second annual report. The current report includes estimates to update certain figures from the 1972 valuation and presents statistical data for fiscal year 1973 in the attached tables. It might be noted that the

Board itself no longer carries out the valuation of the System as implied in section 8347(f) quoted above. The valuation is conducted by the actuarial staff of the Commission using methods and assumptions which are approved by the Board.

 $\label{eq:continuous} \mbox{Appendix I is a summary description of the major provisions of the Civil Service Retirement System.}$

COVERAGE AS OF JUNE 30, 1973

The active membership of the Civil Service Retirement System as of June 30, 1973 was estimated by the Civil Service Commission to consist of 2,630,800 employees with an annual payroll of \$31.7 billion. Although the number of covered employees has decreased by .6% since June 30, 1972, the total covered payroll has increased by 4.9%. The increase in payroll is primarily due to general salary increases during fiscal year 1973. A distribution by age group and sex of the number of active employees and their compensation is shown in Appendix III-A.

Annuitant data is shown in Appendices III-B through III-E following the text of the report. As of June 30, 1973 there were 843,520 retired employees receiving benefits totaling \$316.3 million per month. In addition, there were 348,945 survivors of employees and annuitants receiving benefits of \$51.4 million per month. The total annualized annuity for these recipients is \$4.41 billion, which represents an increase of 21.8% over the total in 1972. The increase is primarily attributable to a cost-of-living annuity increase of 4.8% during fiscal year 1973, an overall increase in number of recipients of 9.2%, and an increase in average pension at retirement. By law, annuity increases are triggered each time the Consumer Price Index increases by 3% or more.

ACTUAL TO EXPECTED EXPERIENCE

Appendix IV contains a comparison of actual mortality and retirement experience to that expected using rates from the 1972 valuation. Actual deaths were 7.8% higher than expected. Retirements were substantially higher than expected-over 68% higher overall and four times expected for one group. This experience is attributable to a surge in all retirement categories before the cost-of-living increase on July 1, 1973. In addition to the normal surge attributable to cost-of-living increases, a large portion of the government was undergoing a major reduction-in-force. After the July 1, 1973 increase, retirements in aggregate returned to a level closer to that expected. The periodic "surge" in the number of retirements attributable to imminent CPI adjustments which has occurred in the past is likely to diminish in the future due to a change in the System which provides that the pension payable after the date of a CPI adjustment will be at least as large as the amount payable just before the CPI adjustment. In any event, the aggregate rates of retirement, including such surges, will be examined before the next regular actuarial valuation and adjustments made in the rates of retirement, if deemed appropriate.

ACTUARIAL COSTS

The entry age-normal cost rate was determined by the 1972 valuation of the System to be 13.64% of payroll. This rate is the level percentage of salaries of new employees that is required to be paid into the fund during their working careers in order to provide the benefits payable on their account (employee pensions plus survivor benefits), based on the valuation assumptions adopted by the Board for the 1972 valuation. Since there was no actuarial valuation of the System as of June 30, 1973, the normal cost rate applicable to fiscal year 1973 is assumed to remain at 13.64%, the rate determined as of the June 30, 1972 valuation.

The normal cost has historically been compared with the combined agency and employee contribution rate, currently 14.00%, as a measure of adequacy, although there is no statutory basis for so doing. The imputed 1973 normal cost of 13.64%, computed on static assumptions, is slightly below the 14.00% combined contribution rate now being assessed employees and the agencies. The Board, in its 1972 Report, showed the results of two alternate dynamic valuations which illustrated the cost of the inflationary components of the System. The normal cost on the dynamic basis would range from 21.56% to 28.74% of payroll, depending on the assumptions used. The Board believes that it is no longer appropriate to set the contribution rate at one-half of the normal cost. Instead, the employee contribution should be set at a fixed level with the balance of the normal cost to be paid by agencies.

The unfunded liability of the System, as defined in the law (which does not reflect potential future increases due to inflation), was estimated to be \$75,485 million as of June 30, 1972. It is estimated that the unfunded liability has increased to \$81,375 million as of June 30, 1973. The following table shows the major components of the increases:

1.	Unfunded liability as of June 30, 1972	\$75,485 million
2.	Interest on unfunded liability and	
	benefits due to military service in	
	excess of amounts paid for these items	2,987
3.	Liability for cost-of-living increases	2,841
4.	Other items	62
5.	Estimated unfunded liability as of	
	June 30, 1973	81,375

The above estimates of the normal cost rate and unfunded liability are based on the static assumptions contemplated in the law. The Board's

1972 report included figures on alternate dynamic assumptions. The Board continues to believe that some recognition should be given to funding for future cost-of-living annuity increases and salary increases. During fiscal year 1973 alone the unfunded liability was increased by approximately \$2.8 billion as a result of one cost-of-living increase.

Appendix IV-C sets forth a summary of previous percentage increases in System benefits for retired employees due to the operation of the cost-of-living adjustment, together with the liability created thereby. The Appendix indicates that from December, 1965 to March, 1976 there have been cumulative increases of 104.4% in Civil Service pensions, with total liabilities of \$31.359 billion being added due to such increases. More than \$22 billion of this has been added since 1972, reflecting the rapid inflation in the last few years.

METHOD OF FINANCING SYSTEM

Each employee contributes 7 percent of compensation and each employing agency matches the contributions of its employees to the Civil Service
Retirement Fund. In addition, Section 8348(f) of the Act provides that the
Government make direct appropriations to liquidate, in level annual installments over 30 years, any increase in unfunded liability resulting from any
statute enacted after October 20, 1969 which authorizes new or liberalized
benefits, extension of coverage to new groups of employees or increases in
salaries on which benefits are based. The Act also provides that the Secretary of the Treasury shall transfer to the fund the following percentages of
the amounts equivalent to interest on the unfunded liability and annuity
disbursements on account of military service: 10 percent at the end of
fiscal year 1971, 20 percent at the end of fiscal year 1972, etc., until
100 percent is reached for fiscal years after 1979. The unfunded liability
is defined for this purpose as that portion of the liabilities not met by

present assets and the present value of future employees' and matching employing agencies' contributions, together with the present value of future 30 year payments under Section 8348(f).

The Fund balance as of June 30, 1973 stands at \$31.0 billion. A breakdown of the investments of the Fund on a cash basis is given in Appendix II.

1974 Contribution Levels

Both the employee and agency contributions will be 7% of the total covered payroll during 1974. The payment required on the statutory unfunded liability in fiscal year 1974 would be 40% of the interest on the estimated unfunded liability as of June 30, 1973. The unfunded liability as developed in the June 30, 1972 valuation was \$75,485 million. Based on this figure the Civil Service Commission estimated the June 30, 1973 unfunded liability to be \$81,375 million. The Civil Service Commission also estimates that military service credit payments of \$322 million will be made during fiscal year 1974, of which 40% would be paid.

The total government payments scheduled under Section 8348(f) on June 30, 1972 were \$609,561,000. During fiscal year 1973 there were additional salary increases and benefit liberalizations for certain groups which required annual payments of \$232,894,000. Therefore, total annual payments under 8343(f) were scheduled to be \$842,455,000 as of June 30, 1973. Additional salary increases and benefit liberalizations during fiscal year 1974 required annual payments of \$248,600,000, bringing the total payments under 8348(f) to \$1,091,055,000 as of June 30, 1974. The table below indicates the total government payment which would be made during fiscal year 1974 if the \$31.7 billion payroll and all the factors were to remain at their June 30, 1973 level (cols (2) and (4)). The table also shows what the total payment would be if 100% of the interest on the unfunded liability and military credit

payments were to be made during fiscal year 1974 (cols (1) and (3)).

1974 Contribution Levels

Contribution	Percentage of Total (1)	Paid (2)	Amount (in to Total (3)	Paid (4)
By Employing Agencies	7.00%	7.00%	\$2,219	\$2,219
Accruing Interest on				
Unfunded Liability				
(40% payable)	12.83	5.13	4,069	1,628
Military Service Credit				
(40% payable)	1.02	.41	322	129
Payment under Section				
8348(f)	3.44	3.44	1,091	1,091
Total ·	24.29%	15.98%	\$7,701	\$5,067

Appendix I

General Provisions of the Civil Service Retirement System (Except for item J, description is of provisions for the typical employee.

Certain special provisions are briefly summarized in item J)

A. General

- 1. Service Employee must have at least five years of civilian service for any retirement benefit or eighteen months for an employee survivor benefit. Military service not used for Social Security entitlement is credited for eligibility and benefit computation. Unused sick leave is credited only for benefit computation.
 - 2. Salary base Benefits based on average salary for the highest three consecutive years.
 - 3. Employee Contributions Employees contribute 7% of covered salary.

If employees did not contribute for, or had received a refund for, prior covered service, benefits are reduced unless contributions are made for this service.

If not eligible for immediate benefit, employee may receive lump sum payment but forfeits right to deferred benefit. If not entitled to deferred benefit, lump sum includes interest. After all benefits have been paid to annuitant and/or survivors, beneficiaries are paid the difference between total contributions and total benefits, if any.

B. Voluntary Retirement

- Conditions Age 55 with 30 years of service; age 60 with 20 years; or age 62 with 5 years.
- 2. Benefit Percentage of salary base is total of 1-1/2% for each of first five years of service plus 1-3/4% for each of next five years plus 2% for each year thereafter.

 Maximum percentage is 80% plus percentage due to unused sick leave.

C. Mandatory Retirement

- 1. Conditions Age 70 with 15 years of service.
- 2. Benefit Same as voluntary benefit.

Involuntary Retirement

- 1. Conditions Age 50 with 20 years of service, or any age with 25 years.
 - Benefit -Voluntary benefit reduced by 1/6 of 1% for each full month under age 55 at retirement.

Disability

- Conditions Any age with 5 years of service.
- Voluntary benefit but no less than the smaller of Benefit -(a) and (b):
 - (a) 40% of salary base
 - (b) Benefit projected to age 60.

Deferred annuity

- 1. Conditions Any age with 5 years of service, unless forfeited by payment or refund.
- Accrued benefit at termination payable at age 62. 2. Benefit -

G. Survivors of deceased employees

- Condition 18 months service.
- 2. Spouse's benefit 55% of disability benefit paid till death of spouse or remarriage before age 60.
- 3. Children's benefit
 - (a) Amount (as adjusted for COL increases)
 - (i) If survived by widow(er), each child receives smallest of
 - (a) 60% of average salary divided by number of children
 - (b) \$3,279 divided by number of children or
 - (c) \$1,093
 - (ii) If surviving child(ren) but no widow(er), each child receives smallest of:
 - (a) 75% of average salary divided by number of children
 - (b) \$3,934 divided by number of children, or (c) \$1,311
 - Flat amounts are increased in line with all CPI adjustments since 11/1/69.

H. Survivors of deceased annuitants

- Conditions Spouse receives annuity if annuitant had elected to receive reduced annuity. Reduction is 2-1/2% of designated amount up to \$3,600 plus 10% over \$3,600 a year. Eligible children receive annuity in any event after death of annuitant.
- Spouse's benefit 55% of unreduced designated annuity paid till death of spouse or remarriage before age 60.
- 3. Children's benefit Same as children of deceased employee.
- 4. Insurable interest Unmarried annuitant in good health may designate an individual with an insurable interest to receive a benefit of 55% of the reduced amount. Reduction of 10% to 40% is based on difference in age.

I. Cost-of-Living Adjustments

Employee and survivor annuities are adjusted upward effective the first day of the third month after a rise in the monthly consumer price index published by the Bureau of Labor Statistics of at least 3 percent for 3 consecutive months. The percentage increase is 1 percent plus the highest percentage rise noted in the 3 months, rounded to the nearest 1/10 of 1 percent.

J. Special Groups

- 1. Members of Congress
 - (a) Conditions voluntary retirement at age 60 with 10 years of service or age 62 with 5 years. Involuntary at age 55 with 30 years of service; 50 with 20 years; any age with 25 years; age 50 and have served in nine Congresses.
 - (b) Benefit 2-1/2% of average salary for each year of service. Benefit reduced if under age 60 at retirement. Reduction is 1% per year (calculated by months) for first 5 years before age 60, plus 2% per year prior to age 55.
 - (c) Contributions 8% of covered salary.

- 2. Congressional Employees
 - (a) Conditions same as regular conditions.
 - (b) Benefit -.2-1/2% of average salary for each year of service.
 (c) Contributions 7-1/2% of covered salary
- 3. Hazardous duty employees
 - (a) Conditions Regular conditions or age 50 with 20 years of hazardous duty service.
 - Benefit 2% of average salary for each year of service.

Appendix II

INVESTMENTS OF THE FUND ON JUNE 30, 1973

Table 1 below shows the distribution by interest rate for special issues and by interest rate group for marketable issues.

	RATE OF	INVESTMENT (AT PAK)
PE OF SECURITY	INTEREST	Amount	
	INIEKESI	(In Thousands)	Percent
Special Issues:	3-3/4%	\$ 929,344	3.0%
opostat tootat.	3-7/8	1,147,551	3.7
	4-1/8	2,745,210	8.9
	4-3/4	1,758,171	5.7
	5-5/8	1,628,319	5.3
	5-3/4	3,980,233	12.9
	6-1/8	5,828,489	18.9
	6-1/2	2,909,257	9.4
	6-5/8	3,951,273	12.8
	7-5/8	2,951,729	9.6
Total	5.855	\$27,829,576	90.2%
Marketable Issues:	3 to 3-1/2%	\$ 355,474	1.2%
Harketable Issues.	4 to 4-1/4	777,579	2.4
	5 to 5-7/8	174,300	.6
	6-1/5 to 6-1/2	1,363,750	4.4
	7-1/2 to 7-3/4	299,500	1.0
	8	65,600	.2
Total	5.472	\$ 3,036,203	9.8%
Grand Total	5.817	\$30,865,779	100.0%

On June 30, 1973, the fund held \$30,865,779,000 (par value) of public debt obligations of the United States. Of this total \$27,829,576,000 or 90.2% was in special non-marketable securities mostly issued on a seven-year maturity basis; the remaining \$3,036,203,000 was invested in public marketable issues. On June 30, 1972, investments on the coupon basis were \$3,036,203,000, while investments on the market yield basis were \$24,631,-986,000. Since June 30, 1972 the average yield on all issues has improved from 5.647% to 5.817%.

Appendix III - A

NUMBER AND ANNUAL SALARIES (IN THOUSANDS) OF ACTIVE MEMBERS DISTRIBUTED BY AGE AS OF JUNE 30, 1973

	ies		88,741	196,	,140	,705	,157	,080	,462	, 901	,154	,708	513,439	,448
L	Salaries		\$ 88	1,239,961	2,839,140	2,978,705	3,285,157	4,190,080	5,141,462	5,870,901	3,860,154	1,719,708	513	\$31,727,448
TOTAL	Number	-	13,702	158,434	289,440	254,810	257,893	326,576	405,130	451,081	299,136	135,070	39,528	2,630,800
EN	Salaries		\$ 61,937	602,872	941,692	718,042	665,164	760,304	1,031,737	1,114,731	769,970	402,299	132,761	87.201.509
WOMEN	Number		10,140	81,683	105,871	75,549	69,460	77,186	101,018	106,183	73,290	38,070	12,612	751.062
MEN	Salaries		\$ 26,804	637,089	1,897,448	2,260,663	2,619,993	3,429,776	4,109,725	4,756,170	3,090,184	1,317,409	380,678	\$24,525,939
M	Number		3,562	76,751	183,569	179,261	188,433	249,390	304,112	344,898	225,846	97,000	26,916	1.879.738
0 4	AGE		Under 20	20-24	25-29	30-34	35-39	77-07	45-49	50-54	55-59	79-09	65 & over	Total

Appendix III - B

RETIRED ON ACCOUNT OF AGE AND VOLUNTARY AND INVOLUNTARY SEPARATION CLASSIFIED BY SEX AND FIFTH-YEAR AGE GROUPS AS OF JUNE 30, 1973 THE NUMBER AND MONTHLY ANNUITIES OF ANNUITANTS ON THE ROLL

	Z	Monthly	Annuity	3 1,862	259,305	1,414,846	4,665,461	9,550,250	12,320,602	10,606,332	6,792,548	2,950,225	926,536	214,571	38,981	2,299	17	\$49,743,835
	WOMEN		Number	7	722	3,522	9,901	25,314	41,194	38,995	28,293	14,111	799,4	1,114	185	12		168,038
	MEN	Monthly	Annuity	\$ 17,073	1,063,154	7,821,758	30,624,355	45,201,509	46,443,578	33,332,456	24,933,736	11,007,622	3,445,009	811,504	115,798	7,198		\$204,824,750
The second secon	14		Number	53	2,669	15,881	50,975	81,322	99,481	80,858	71,340	37,042	12,608	2,927	453	30		455,639
		AGE	GROUP	75-07	45-49	50-54	55-59	79-09	69-69	70-74	75-79	80-84	85 89	76-06	66-56	100-104	105,110	Total

Note: Monthly voluntary annuities of \$246,623 are included in the above table.

Appendix III - C

THE NUMBER AND MONTHLY ANNUITIES OF ANNUITANTS ON THE ROLL CLASSIFIED BY SEX AND FIFTH-YEAR AGE GROUPS AS OF JUNE 30, 1973 RETIRED ON ACCOUNT OF DISABILITY

		•																		
WOVEN	Monthly Annuity	\$ 859	29,177	97,340	206,331	423,243	1,160,351	2,225,196	2,608,931	2,588,366	1,901,275	1,172,207	713,014	264,868	74,323	22,490	5,107	210		\$13,493,288
A	Number	7	125	396	832	1,668	4,434	8,141	9,910	10,840	6,067	6,404	4,134	1,708	195	126	31	F		58,282
MEN	Monthly Annuity	\$ 483	37,758	161,207	511,925	1,446,426	3,985,752	9,164,045	10,423,711	8,971,026	6,316,509	3,486,202	2,746,975	929,047	177,843	31,222	5,342		376	\$48,395,849
	Number	2	141	565	1,703	4,920	12,982	27,550	31,060	28,330	21,140	13,440	13,155	5,312	1,051	179	30		1	161,561
	AGE GROUP	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	99-09	69-69	70-74	75-79	80-84	85-89	76-06	95-99	100-104	105-109	Total

Note: Monthly voluntary annuities of \$17,168 are included in the above table.

Appendix III - D

THE NUMBER AND MONTHLY ANNUITIES OF SURVIVOR ANNUITANTS ON THE ROLL CLASSIFIED BY FIFTH-YEAR AGE GROUPS AS OF JUNE 30, 1973 SURVIVORS OF DECEASED EMPLOYEES

																							•	
YERS	Monthly Annuities				\$ 709	216	2,469	5,530	5,977	. 10,127	20,154	31,963	33,300	29,461	17,114	7,228	4,197	1,179	169			:		\$ 170,315
WIDOWERS	Number				1	2	19	42	46.	73	141	225	231	230	129	62	29	. 12	7				,	1,249
WIDOWS	Monthly Annuities				\$ 288	6,983	38,695	105,905	234,065	558,412	1,368,948	2,336,234	2,811,877	2,816,840	2,316,150	1,804,536	1,200,245	548,575	171,527	43,816	3,906	298	59	\$ 16,367,659
IW	Number				2	52	260	655	1,494	3,536	8,057	13,075	15,188	15,710	14,046	12,323	8,990	4,481	1,623	472	24	6	1	100,028
CHILDREN	Monchly Annuicies	\$ 73.297	376,961	1,145,574	2,045,664	699,390	29,394	23,199	16,005	14,574	11,984	9,888	4,233	1,464	402	656								\$ 4,452,685
8	Number	930	4,885	14,343	24,089	7,906	319	251	170	153	125	102	42	14	4	7							-	53,340
AGE	GROUP	4-0	5-9	10-14	15-19	20-24	25-29	30-34	35-39	77-07	45-49	50-54	55-59	79-09	62-69	70-74	75-79	80-84	85-89	90-96	95-99	100-104	105-109	Total

Appendix III - E

THE NUMBER AND MONTHLY ANNUITIES OF SURVIVOR ANNUITANTS ON THE ROLL CLASSIFIED BY FIFTH-YEAR AGE GROUPS AS OF JUNE 30, 1973 SURVIVORS OF DECEASED ANNUITANTS

	City	CITTONIA		WIDOWS.	MIDO	UI DOUBER		
GROUP	Number	Monthly Annuities	Number	Monthly	Number	Monthly	Nimber	Montaly Yours
								a commen
0-4	147	10,684						
5-9	1,268	94,634						
10-14	4,947	394, 761					c	
15-19	9,501	807 359					7	194
20-24	3,184	278 264	1	141				
25-29	243	22 2/2	38	9		101	י נ	232
30-34	279	26 26.3	153	20,488	4 1	100	۱ ۱	015
35-39	277	20,000	371	7.7 103	- 0	08/	_	847
77-07	220	26,500	7.00	7676/4	7.7	1,474	n	541
101	328	31,547.	1,081	151,042	07	4,378	12	. 831
40-49	351	33,901	3,299	490,586	105	10,857	23	2 215
50-54	327	32,454	6,695	1,127,833	235	28,112	30	2000
55-59	140	14,199	11,322	2,110,238	348	45,328	33	2000
79-09	73	7,546	18,753	3,645,634	569	74.652	5.7	C1047
69-59	28	2.693	26,764	4,953,039	688	R3 30%	, ,	10,007
70-74	10	0000	34,331	5 850 505	200	10000	1 0	13,049
75-79	~	000	32 167	7 101 007	000	63,275	86	15,778
80-84	,	223	107,00	0,121,931	263	61,528	82	13,388
00 00			20,490	7,946,481	304	28,963	78	11,147
60-00	-	16	6,694	1,215,496	140	11,098	36	5 222
50-06			3,133	338,455	37	2,855	1 1	1,101
95-99			264	54,674	1.2	672	, ,	700
100-104			67	4.402	1 (*	71.7	1	370
105-109			00	650	7	10		
	-							
Total	21,107	\$ 1,784,303	168,910	\$ 23,085,686	3.759	775 227 5	5 63 3	0 00

Appendix IV-A

COMPARISON OF ACTUAL DEATHS TO EXPECTED DEATHS IN FISCAL YEAR 1973

			Ratio of Actual
Group and Type	Actual	Expected*	to Expected
Retiree Deaths: Disability - Male - Female Non-disability - Male - Female	8,608 1,835 21,487 4,723	8,383.9 1,877.3 19,481.7 4,244.4	102.7% 97.7 110.3 111.3
Total Appendix	36,653	33,987.3	107.8
	CTUAL RETIREM RETIREMENTS YEAR 1973	ENTS	
New Retirees on Immediate Annuity: Disability - Male - Female Involuntary - Male - Female Other - Male - Female	20,397 7,945 28,006 7,250 64,898 19,569	15,397.4 5,667.9 6,523.0 1,830.6 44,039.6 14,137.5	132.5 140.2 429.3 396.0 147.4 138.4
Total	147,883	87,596.0	168.8

^{*}Based on rates published in the 1972 Board of Actuaries report.

Appendix IV-G
SUMMARY OF EXPERIENCE UNDER COST-OF-LIVING PROVISION 1965-76

Month/year of Increase		CPI Increase (percent)	Benefit Increase (percent)	Increase in Liability (millions)
December 1965 January 1967 May 1968 March 1969 November 1969		4.6% 3.9 3.9 3.9 4.0	6.1% 3.9 3.9 3.9 5.0	\$776 739 890 948 1,410
August 1970 June 1971 July 1972 July 1973 January 1974		4.6 3.5 3.8 5.1 4.5	5.6 4.5 4.8 6.1 5.5	1,447 1,344 1,735 2,827 2,897
July 1974 January 1975 August 1975 March 1976		5.3 6.3 4.1 4.4	6.3 7.3 5.1 5.4	3,578 4,807 3,781 4,180
Accumulations	since:			
December 1965		83.2%	104.4%	\$31,359
November 1969		56.1%	71.7%	\$28,006
July 1973		33.6%	41.4%	\$22,070



BOARD OF ACTUARIES, CIVIL SERVICE RETIREMENT SYSTEM, June 11, 1976.

U.S. CIVIL SERVICE COMMISSION, Washington, D.C.

DEAR COMMISSIONERS: The Board of Actuaries appointed under section 8347(f) of Title 5, United States Code, has the honor to submit herewith its fifty-fourth annual report on the operation of the fund.

The report gives a statement of the contribution necessary to finance the fund on the method provided under Public Law 91-93, under the benefit and contribution provisions of the Act as amended through June 30, 1974, and on the basis of the estimated membership of the fund as of that date. The amounts indicated are based on a projection of the results from the June 30, 1972, valuation, the last completed valuation of the System.

Respectfully submitted,

EDWIN F. BOYNTON, RUSSELL R. REAGH, DOUGLAS C. BORTON.

FIFTY-FOURTH ANNUAL REPORT OF THE BOARD OF ACTUARIES OF THE CIVIL SERVICE RETIREMENT SYSTEM PREPARED AS OF JUNE 30, 1974

INTRODUCTION

The Civil Service Retirement System was established in 1920 to furnish pension benefits to officers and employees retiring from employment with the United States Government. The current system provides survivor and disability benefits as well as retirement benefits, after various age and service combinations are met. Title 5, United States Code, makes provision for a Board of Actuaries of the Civil Service Retirement System and in section 8347(f) defines the chief duties of the Board, as follows:

"(f) The Commission shall select three actuaries, to be known as the Board of Actuaries of the Civil Service Retirement System. The Commission shall fix the pay of the members of the Board, except members otherwise in the employ of the United States. The Board shall report annually on the actuarial status of the System and furnish its advice and opinion on matters referred to it by the Commission. The Board may recommend to the Commission and to Congress such changes as in the Board's judgment are necessary to protect the public interest and maintein the System on a sound financial basis. The Commission shall keep, or cause to be kept, such records as it considers necessary for making periodic actuarial valuations of the System. The Board shall make actuarial valuations every 5 years, or oftener if considered necessary by the Commission."

This report, which has been prepared as of June 30, 1974, is the fifty-fourth annual report of the Board of Actuaries, but does not include an actuarial valuation of the System. The last complete actuarial valuation of the System was carried out as of June 30, 1972 and the results were presented in the fifty-second annual report. The current report includes estimates to update certain figures from the 1972 valuation and presents statistical data for fiscal year 1974 in the attached tables. It might be noted that the Board itself no longer carries out the valuation of the System as implied in

section 8347(f) quoted above. The valuation is conducted by the actuarial staff of the Commission using methods and assumptions which are approved by the Board.

Appendix I is a summary description of the major provisions of the Civil Service Retirement System.

COVERAGE AS OF JUNE 30, 1974

The active membership of the Civil Service Retirement System as of June 30, 1974 was estimated by the Civil Service Commission to consist of 2,671,300 employees with an annual payroll of \$34.3 billion. The number of covered employees has increased by 1.5% since June 30, 1973, and the total covered payroll has increased by 8.2%. The increase in payroll is primarily due to general salary increases during fiscal year 1974. A distribution by age group and sex of the number of active employees and their compensation is shown in Appendix III-A.

Annuitant data is shown in Appendices III-B through III-E following the text of the report. As of June 30, 1974 there were 938,654 retired employees receiving benefits totaling \$414.9 million per month. In addition, there were 367,527 survivors of employees and annuitants receiving benefits of \$62.5 million per month. The total annualized annuity for these recipients is \$5.73 billion, which represents an increase of 29.9% over the total in 1973. The increase is primarily attributable to two cost-of-living annuity increases of 6.1% and 5.5% during fiscal year 1974, an overall increase in number of recipients of 9.5%, and an increase in average pension at retirement. By law, annuity increases are triggered each time the Consumer Price Index increases by 3% or more.

ACTUAL TO EXPECTED EXPERIENCE

Appendix IV cortains a comparison of actual mortality and retirement experience to that expected using rates from the 1972 valuation. Actual deaths were about equal to those expected by the assumptions. The number of actual retirements was about 10.6% more than expected. However, disability and voluntary retirements were very close to expected, and most of the retirements in excess of those expected are in the involuntary retirement category, where the number of retirements was about double the expected.

ACTUARIAL COSTS

The entry age-normal cost rate was determined by the 1972 valuation of the System to be 13.64% of payroll. This rate is the level percentage of salaries of new employees that is required to be paid into the fund during their working careers in order to provide the benefits payable on their account (employee pensions plus survivor benefits), based on the valuation assumptions adopted by the Board for the 1972 valuation. The rate determined as of the June 30, 1972 valuation of 13.64% was adjusted to 13.66% as of June 30, 1974 to reflect liberalizations in the System during fiscal 1974.

The normal cost has historically been compared with the combined agency and employee contribution rate, currently 14.00%, as a measure of adequacy, although there is no statutory basis for so doing. The imputed 1974 normal cost of 13.66%, computed on static assumptions, is slightly below the 14.00% combined contribution rate now being assessed employees and the agencies. The Board, in its 1972 Report, showed the results of two alternate dynamic valuations which illustrated the cost of the inflationary components of the System. The normal cost on the dynamic basis would range from 21.56%

to 28.74% of payroll, depending on the assumptions used. The Board believes that it is no longer appropriate to set the contribution rate at one-half of the normal cost. Instead, the employee contribution should be set at a fixed level with the balance of the normal cost to be paid by agencies.

The unfunded liability of the System, as defined in the law (which does not reflect potential future increases due to inflation), was estimated to be \$81,375 million as of June 30, 1973, based on a projection of the 1972 figure. It is estimated that the unfunded liability has increased to \$90,432 million as of June 30, 1974. The following table shows the major components of the increases:

1.	Unfunded liability as of June 30, 1973	\$81,375 million
2.	Interest on unfunded liability and	
	benefits due to military service	
	in excess of amounts paid for these	
	items	2,888
3.	Liability for cost-of-living increases	6,487
4.	Other items	-316
5.	Estimated unfunded liability as of	
	June 30, 1974	90,434

The above estimates of the normal cost rate and unfunded liability are based on the static assumptions contemplated in the law. The Board's 1972 report included figures on alternate dynamic assumptions. The Board continues to believe that some recognition should be given to funding for future cost-of-living annuity increases and salary increases. During fiscal year 1974 alone the unfunded liability was increased by approximately \$6.5 billion as a result of two cost-of-living increases.

Appendix IV-C sets forth a summary of previous percentage increases in System benefits for retired employees due to the operation of the cost-of-living adjustment, together with the liability created thereby. The Appendix indicates that from December, 1965 to March, 1976 there have been cumulative increases of 104.4% in Civil Service pensions, with total liabilities of \$31.359 billion being added due to such increases. More than \$22 billion of this has been added since 1972, reflecting the rapid inflation in the last few years.

METHOD OF FINANCING SYSTEM

Each employee contributes 7 percent of compensation and each employing agency matches the contributions of its employees to the Civil Service Retirement Fund. In addition, Section 8348(f) of the Act provides that the Government make direct appropriations to liquidate, in level annual installments over 30 years, any increase in unfunded liability resulting from any statute enacted after October 20, 1969 which authorizes new or liberalized benefits, extension of coverage to new groups of employees or increases in salaries on which benefits are based. The Act also provides that the Secretary of the Treasury shall transfer to the fund the following percentages of the amounts equivalent to interest on the unfunded liability and annuity disbursements on account of military service: 10 percent at the end of fiscal year 1971, 20 percent at the end of fiscal year 1972, etc., until 100 percent is reached for fiscal years after 1979. The unfunded liability is defined for this purpose as that portion of the liabilities not met by present assets and the present value of future employees' and matching employing agencies' contributions, together with the present value of future 30 year payments under Section 8348(f).

The Fund balance as of June 30, 1973 stands at \$34.3 billion. A breakdown of the investments of the Fund on a cash basis is given in Appendix II.

1975 Contribution Levels

Both the employee and agency contributions will be 7% of the total covered payroll during 1975. The payment required on the statutory unfunded liability in fiscal year 1975 would be 50% of the interest on the estimated unfunded liability as of June 30, 1974. The unfunded liability as developed in the June 30, 1972 valuation was \$75,485 million. Projecting from this figure the Civil Service Commission estimated the June 30, 1974 unfunded liability to be \$90,434 million. The Civil Service Commission also estimates that military service credit payments of \$409 million will be made during fiscal year 1975, of which 50% would be paid.

The total government payments scheduled under Section 8348(f) on June 30, 1974 were \$1,091,055,000. During fiscal year 1975 there were additional salary increases and benefit liberalizations for certain groups which required annual payments of \$404,326,000. Therefore, total annual payments under 8348(f) were scheduled to be \$1,495,381,000 as of June 30, 1975.

The table below indicates the total government payment which would be made during fiscal year 1975 if the \$34.3 billion payroll and all the factors were to remain at their June 30, 1974 level (Cols. (2) and (4)). The table also shows what the total payment would be if 100% of the interest on the unfunded liability and military credit payments were to be made during fiscal year 1975 (Cols. (1) and (3)).

1975 Contribution Levels

Contribution	Percentage	of Payroll	Amount (in	millions)
	Total (1)	Paid (2)	Total (3)	Pald (4)
By Employing Agencies	7.00%	7.00%	\$2,401	\$2,401
Accruing Interest on				
Unfunded Liability				
(50% payable)	13.18	6.59	4,522	2,261
Military Service Credit				
(50% payable)	1.19	.60	409	205
Payment under Section		>		
8348(1)	4.36	4.36	1,495	1,495
Total	25.73%	18.55%	\$8,827	\$6,362

Appendix I

General Provisions of the Civil Service Retirement System
(Except for item J, description is of provisions for the typical employee.

Certain special provisions are briefly summarized in item J)

A. General

- Service Employee must have at least five years of civilian service
 for any retirement benefit or eighteen months for an
 employee survivor benefit. Military service not used for
 Social Security entitlement is credited for eligibility
 and benefit computation. Unused sick leave is credited
 only for benefit computation.
- Salary base Benefits based on average salary for the highest three consecutive years.
- 3. Employee Contributions Employees contribute 7% of covered salary.

If employees did not contribute for, or had received a refund for, prior covered service, benefits are reduced unless contributions are made for this service.

If not eligible for immediate benefit, employee may receive lump sum payment but forfeits right to deferred benefit. If not entitled to deferred benefit, lump sum includes interest. After all benefits have been paid to annuitant and/or survivors, beneficiaries are paid the difference between total contributions and total benefits, if any.

B. Voluntary Retirement

- Conditions Age 55 with 30 years of service; age 60 with 20 years; or age 62 with 5 years.
- Benefit Percentage of salary base is total of 1-1/2% for each of first five years of service plus 1-3/4% for each of next five years plus 2% for each year thereafter.
 Maximum percentage is 80% plus percentage due to unused sick leave.

C. Mandatory Retirement

- 1. Conditions Age 70 with 15 years of service.
 - 2. Benefit Same as voluntary benefit.

Involuntary Retirement

- 1. Conditions Age 50 with 20 years of service, or any age with 25 years.
 - Voluntary benefit reduced by 1/6 of 1% for each full ' 2. Benefit -month under age 55 at retirement.

Disability

- 1. Conditions Any age with 5 years of service.
- 2. Benefit Voluntary benefit but no less than the smaller of
 - (a) and (b):
 - (a) 40% of salary base
 - (b) Benefit projected to age 60.

F. Deferred annuity

- 1. Conditions Any age with 5 years of service, unless forfeited by payment or refund.
- 2. Benefit Accrued benefit at termination payable at age 62.

Survivors of deceased employees

- 1. Condition 18 months service.
- 2. Spouse's benefit 55% of disability benefit paid till death of spouse or remarriage before age 60,

2. Children's benefit

- (a) Amount (as adjusted for COL increases)
 - (i) If survived by widow(er), each child receives smallest of
 - (a) 60% of average salary divided by number of children
 - (b) \$3,279 divided by number of children or (c) \$1,093
 - If surviving child(ren), but no widow(er), each child (ii) receives smallest of: .
 - (a) 75% of average salary divided by number of children
 - (b) \$3,934 divided by number of children, or (c) \$1,311
 - (iii) Flat amounts are increased in line with all CPI adjustments since 11/1/69.

H. Survivors of deceased annuitants

- Conditions Spouse receives annuity if annuitant had elected to receive reduced annuity. Reduction is 2-1/2% of designated amount up to \$3,600 plus 10% over \$3,600 a year. Eligible children receive annuity in any event after death of annuitant.
- Spouse's benefit 55% of unreduced designated annuity paid till death of spouse or remarriage before age 60.
- 3. Children's benefit Same as children of deceased employee.
- 4. Insurable interest Unmarried annuitant in good health may designate an individual with an insurable interest to receive a benefit of 55% of the reduced amount. Reduction of 10% to 40% is based on difference in age.

I. Cost-of-Living Adjustments

Employee and survivor annuities are adjusted upward effective the first day of the third month after a rise in the monthly consumer price index published by the Bureau of Labor Statistics of at least 3 percent for 3 consecutive months. The percentage increase is 1 percent plus the highest percentage rise noted in the 3 months, rounded to the nearest 1/10 of 1 percent.

J. Special Groups

- 1. Members of Congress
 - (a) Conditions voluntary retirement at age 60 with 10 years of service or age 62 with 5 years. Involuntary at age 55 with 30 years of service; 50 with 20 years; any age with 25 years; age 50 and have served in nine Congresses.
 - (b) Benefit 2-1/2% of average salary for each year of service. Benefit reduced if under age 60 at retirement. Reduction is 1% per year (calculated by months) for first 5 years before age 60, plus 2% per year prior to age 55.
 - (c) Contributions 8% of covered salary.

- Congressional Employees

 - (a) Conditions same as regular conditions.
 (b) Benefit 2-1/2% of average salary for each year of service.
 (c) Contributions 7-1/2% of covered salary.
- 3. Hazardous duty employees*
 - (a) Conditions Regular conditions or age 50 with 20 years of hazardous duty service.
 - (b) Benefit - 2-1/2% of average salary for each year of first 20 years of service plus 2% of salary for service over 20 years.

^{*}Incorporating changes made effective 7/12/74.

Appendix II
INVESTMENTS OF THE FUND ON JUNE 30, 1974

Table 1 below shows the distribution by interest rate for special issues and by interest rate group for marketable issues.

	RATE OF	INVESTMENT (AT PAR)
TPE OF SECURITY	INTEREST	Amount	
	INTEREST	(In Thousands)	Percent
Special Issues:	3-3/4%	\$ 868,368	2.53%
opecial issues.	3-7/8	1,067,324	3.11
	4-1/8	2,532,823	7.38
	5-5/8	1,628,319	4.74
	5-3/4	3,980,233	11.59
	6-1/8	5,828,489	16.98
	6-1/2	2,909,257	8.47
	6-5/8		
		3,951,273	11.51
	7-5/8	8,331,420	24.27
Total	6.245	\$31,097,506	90.58%
Marketable Issues:	3 to 3-1/2%	\$ 355,474	1.04%
	4 to 4-1/4	533,219	1.55
	5 to 5-7/8	174,300	.51
	6 to 6-1/2	1,363,750	3.97
	7 to 7-3/4	612,214	1.78
	8 to 8-1/2	194,660	. 57
Total	5.883	\$ 3,233,617	9.42%
Grand Total	6.211	\$34,331,123	100.00%

On June 30, 1974, the fund held \$34,331,123,000 (par value) of public debt obligations of the United States. Of this total \$31,097,506,000 or 90.58% were in special non-marketable securities mostly issued on a seven-year maturity basis; the remaining \$3,233,617,000 was invested in public marketable issues. On June 30, 1973, investments on the coupon basis were \$3,036,203,000, while investments on the market yield basis were \$27,829,-576,000. Since June 30, 1973 the average yield on all issues has improved from 5.817% to 6.211%.

Appendix III - A

NUMBER AND ANNUAL SALARIES (IN THOUSANDS) OF ACTIVE MEMBERS DISTRIBUTED BY AGE AS OF JUNE 30, 1974

1	Ż	MEN	WOMEN	EN)J.	TOTAL
AGE	Number	Salaries	Number	Salaries	Number	Salaries
Under 20	3,833	\$ 32,027	11,844	\$ 76,690	15,677	\$ 108,717
20-24	83,705	756,011	90,291	699,063	173,996	1,455,074
25-29	212,626	2,326,683	118,340	1,104,824	330,966	3,431,507
30-34	188,453	2,543,133	83,381	848,558	271,834	3,391,691
35-39	184,264	2,761,224	73,276	750,555	257,540	3,511,779
77-07	239,617	3,571,624	78,588	823,531	318,205	4,395,155
45-49	280,967	4,115,174	94,437	1,026,373	375,404	5,141,547
50-54	333,158	4,948,188	108,645	1,211,773	441,803	6,159,961
55-59	230,343	3,396,218	73,233	822,942	303,576	4,219,160
79-09	100,343	1,456,110	39,450	442,467	139,793	1,898,577
65 & over	29,194	436,249	13,312	150,076	42,506	586,325
Total	1,886,503	\$26,342,641	784,797	\$7,956,852	2,671,300	\$34,299,493

Appendix III - B

CLASSIFIED BY SEX AND FIFTH-YEAR AGE GROUPS AS OF JUNE 30, 1974 RETIRED ON ACCOUNT OF AGE AND VOLUNTARY AND INVOLUNTARY SEPARATION THE NUMBER AND MONTHLY ANNUITIES OF ANNUITANTS ON THE ROLL

WOMEN	Monthly Annuity	\$ 3,194	320,801	2,310,679	6,940,602	13,241,182	15,860,508	12,879,687	8,214,238	3,744,593	1,204,836	286,262	45,640	2,774		\$65,054,996
M	Number	7	781	5,061	12,995	30,197	45,704	40,878	29,778	15,564	5,468	1,286	201	12		187,932
MEN	· Monthly Annuity	\$ 27,350	1,307,992	11,830,297	46,353,781	64,102,426	61,587,739	39,267,330	28,094,930	13,792,025	4,331,777	982,513	143,684	8,074	260	\$271,830,478
ž.	Number	59	2,792	20,560	865,99	99,351	113,600	82,314	69,042	40,258	13,911	3,162	501	29	2	512,179
	AGE GROUP	77-07	67-57	20-54	55-59	79-09	62-69	70-74	75-79	80-84	85-89	96-96	95-99	100-104	105-109	Total

Note: Monthly voluntary annuities of \$241,748 are included in the above table.

Appendix III - C

THE NUMBER AND MONTHLY ANNUITIES OF ANNUITANTS ON THE ROLL CLASSIFIED BY SEX AND FIFTH-YEAR AGE GROUPS AS OF JUNE 30, 1974 RETIRED ON ACCOUNT OF DISABILITY

												•								
WOMEN	Monthly	Annuicy		\$ 44,485	136,652	278,495	584,158	1,447,429	3,033,014	3,387,537	3,273,403	2,243,788	1,420,943	863,790	339,501	, 98,311	25,354	7,207	458	\$17,184,525
A		ипшоег		168	787	776	1,980	4,741	9,616	11,109	11,960	105,6	6,735	4,389	1,912	248	131	38	2	161,191
ÆN	Monthly	Annulcy	\$ 492	53,626	230,093	629,025	1,793,628	4,714,124	12,134,486	14,122,017	11,279,233	7,701,630	4,119,326	2,987,835	1,226,992	234,858	38,440	6,921	115	\$61,272,841
	N.	Number	2	178	269	1,825	5,235	13,104	30,717	35,702	30,939	22,494	13,659	12,225	690,9	1,270	201	34	1	174,352
	AGE	GROUP	20-24	25-29	30-34	35-39	77-07	45-49	50-54	55-59	79-09	69-69	70-74	75-79	80-84	85-89	90-94	95-99	100-104	Total
MEN	Monthly	Number Annulty	2 \$	178	697	1,825 629,025	5,235 1,793,628	13,104 4,714,124	30,717 12,134,486	35,702 14,122,017	30,939 11,279,233	22,494 7,701,630	13,659 4,119,326	12,225 2,987,835	6,069 1,226,992	1,270 234,858	201 38,440	34	100-104	176 576 193 651 771

Note: Monthly voluntary annuitles of \$16,621 are included in the above table.

Appendix III - D

THE NUMBER AND MONTHLY ANNUITIES OF SURVIVOR ANNUITANTS ON THE ROLL CLASSIFIED BY FIFTH-YEAR AGE GROUPS AS OF JUNE 30, 1974 SURVIVORS OF DECEASED EMPLOYEES

	•																								
WIDOWERS	Monthly Annuities					-	\$ 252	3,552	6,740	9,430	13,946	27,432	51,277	51,389	46,975	27,322	12,838	5,795	1,887	452	51	34			\$ 259,672
WIDO	Number						S	54	45	62	88	177	307	306	311	183	102	41	17	2	1	-1			1,675
WIDOWS	Monthly Annuities						\$ 6,610	51,019	143,114	279,427	632,275	1,550,431	2,799,287	3,301,224	3,305,255	2,715,421	2,151,108	1,434,384	709,292	249,771	63,603	8,132	1,131	129	\$ 19,401,613
W	Number						43	305	743	1,500	3,360	7,815	13,465	15,544	15,995	14,241	13,097	9,160	5,098	2,055	909	97	13	2	 103,137
CHILDREN	Monthly Annuities		\$ 79,478	412,677	1,273,586	2,314,429	839,113	38,709	27,374	20,004	14,876	14,729	12,055	5,325	1,986	573	102						r		\$ 5,055,016
CHI	Number	-	885	4,675	14,119	24,254	8,466	374	264	189	141	138	110	47	17	5	1								53,685
AGE	GROUP		5-0	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	99-09	62-69	70-74	75-79	80-84	85-89	90-94	66-56	100-104	105-109	Total

Appendix III - E
THE NUMBER AND MONTHLY ANNUITIES OF SURVIVOR ANNUITANTS ON THE ROLL
CLASSIFIED BY FIFTH-YEAR ACE GROUPS AS OF JUNE 30, 1974
SURVIVORS OF DECEASED ANNUITANTS

AGE	CHI	CHILDREN	1.5	WIDOWS	WIDOWERS	IERS	OTHERS	ERS
GROUP	Number	Monthly Annuities	Number	Monthly Annuities	Number	. Monthly Annuities	Number	Monthly
7-0	147	\$ 11,998						
5-9	1,266	106,235						
10-14	5,099	458,265					₽	\$ 89
15-19	10,223	977,058					-	129
20-24	3,676	361,849		\$ 81			٣	260
25-29	309	31,506	34	6,017	1	\$ 151	4	275
30-34	289	30,521	149	23,933	9	1,079	7	951
35-39	313	33,557	379	58,223	19	2,687	9	905
40-44	328	35,241	1,133	190,755	43	6,153	6	561
45-49	395	42,910	3,419	606,084	107	13,852	25	2,915
50-54	367	40,822	7,502	1,489,402	243	32,852	29	3,042
55-59	181	20,382	12,192	2,664,504	428	64,892	38	4,239
99-09	73	8,336	20,156	4,524,116	642	97,742	20	6,456
65-59	43	4,796	27,939	6,061,107	802	115,946.	79	14,885
70-74	6	1,007	36,560	7,180,910	837	114,751	103	20,041
75-79	E	311	33,861	6,271,231	632	82,140	87	16,525
80-84			22,595	3,762,713	363	666,04	86	14,357
85-59			10,969	1,600,324	156	14,353	37	6,530
76-06			3,706	456,309	20	4,375	15	2,160
95-99			693	75,784	10	713	2	364
100-104			88	8,987	ы	69		
105-109			6	842			٠	
- 1					-			
Total	22,721	\$ 2,164,794	181,385	\$ 34,981,322	4,342	\$ 592,754	582	\$ 94,684

Appendix IV - A

COMPARISON OF ACTUAL DEATHS TO EXPECTED DEATHS IN FISCAL YEAR 1974

Group and Type	Actual	Expected	Ratio of Actual to Expected
Retiree Deaths:			
Disability - Male	8,566	9,021.2	95.0%
- Female	1,893	2,085.4	90.8
Non-Disability - Male	21,568	20,813.8	103.6
- Female	4,825	4,660.8	103.5
Total	36,852	36,581.2	100.7
Appen	dix IV - B		
	ACTUAL RETINED RETIREMENTAL YEAR 1974	rs	
New Retirees on Immediate Annui	tv:		
Disability - Male	15,270	15,206.5	100.4%
- Female	6,093	5,718.8	106.5
Involuntary - Male	11,752	6,120.6	192.0
- Female	3,860	1,810.9	213.2
Other - Male	44,503	43,491.0	102.3
- Female	13,257	13,283.4	99:8
Total	94,735	85,631.2	110.6

Based on rates published in the 1972 Board of Actuaries report.

Appendix IV-C
SUMMARY OF EXPERIENCE UNDER COST-OF-LIVING PROVISION 1965-76

Month/year of Increase	CPI Increase (percent)	Benefit Increase (percent)	Increase in Liability (millions)
December 1965 January 1967 May 1968 March 1969 November 1969	4.6% 3.9 3.9 3.9 4.0	6.1% 3.9 3.9 3.9 5.0	\$776 739 890 948 1,410
August 1970 June 1971 July 1972 July 1973 January 1974	4.6 3.5 3.8 5.1 4.5	5.6 4.5 4.8 6.1 5.5	1,447 1,344 1,735 2,827 2,897
July 1974 January 1975 August 1975 March 1976	5.3 6.3 4.1 4.4	6.3 7.3 5.1 5.4	3,578 4,807 3,781 4,180
Accumulations since:			
December 1965	83.2%	104.4%	\$31,359
November 1969	56.1%	71.7%	\$28,006
July 1973	33.6%	41.4%	\$22,070

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